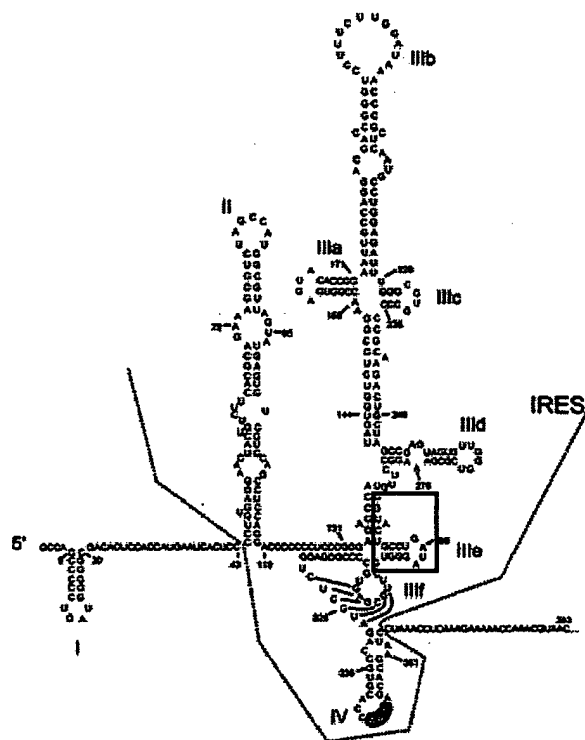


**Fig. 1. The Sequence and Secondary Structure of 5'UTR of HCV Genome.**



The region where siRNAs was designed is boxed.  
The sequence of the 21-bp siRNA<sub>5</sub> is shown below.

	286	304
siRNA <sub>5</sub>	5'-GUACUGCCUGAUAGGGUGCUU UUCAUGACGGACUAUCCCACG-5'	
GL2	5'-CGUACGCGGAAUACUUCGAUU UUGCAUGCGCCUUAUGAAGCU-5'	
GL3	5'-CUUACGCUGAGUACUUCGAUU UUGAAUGCGACUCAUGAAGCU-5'	
SIN	5'-AUCUCUACGGUGGUCCUAAUU UUUAGAGAUGCCACCAGGAUU-5'	

Fig. 2

	Domain	sequence (NN-N19-NN)	Position		
5U8	5'UTR	cc-CUGUGAGGAACUACUGUCU-uc	45-63	sense	CUGUGAGGAACUACUGUCUUC
				antisense	AGACAGUAGUCCUCACAGGG
5U9		ua-CUGUCUUCACGCAGAAAGC-gu	58-76	sense	CUGUCUUCACGCAGAAAGCGU
				antisense	GCUUUCUGCGUGAAGACAGUA
5U10		cg-AGACUGCUAGCCGAGUAGU-gu	244-262	sense	AGACUGCUAGCCGAGUAGUGU
				antisense	ACUACUCGGCUAGCAGUCUCG
C1	Core	ga-AUCCUAAACCUCAAAGAAA-aa	352-370	sense	AUCCUAAACCUCAAAGAAAA
				antisense	UUUCUUUGAGGUUUAGGAUUC
C2		gg-UCAGAU CGUCGGUGGAGUU-ua	425-443	sense	UCAGAU CGUCGGUGGAGUUUA
				antisense	AACUCCACCGACGAUCUGACC
C3		gg-UAAGGUCAUCGAUACCCUC-ac	701-719	sense	UAAGGUCAUCGAUACCCUCAC
				antisense	GAGGGUAUCGAUGACCUUACC
C4		ac-GGCGUGAACUAUGCAACAG-gg	822-840	sense	GGCGUGAACUAUGCAACAGGG
				antisense	CUGUUGCAUAGUUCACGCCGU
C5		cc-GGUUGCUCUUUUCUAUCU-uc	852-870	sense	GGUUGCUCUUUUCUAUCUUC
				antisense	AGAUAGAAAAGGAGCAACCGG
5B1	NS5B	gc-UCUUCAUACGGAUCCAAU-ac	8163-8181	sense	UCUUCAUACGGAUCCAAUAC
				antisense	AUUGGAAUCCGUAUGAAGAGC
5B2		ca-UACGGAUCCAAUACUCUC-cu	8167-8187	sense	UACGGAUCCAAUACUCUCCU
				antisense	GAGAGUAUUGGAAUCCGUAUG
5B3		uu-UGACUCAACGGUCACUGAG-aa	8270-8288	sense	UGACUCAACGGUCACUGAGAA
				antisense	CUCAGUGACCGUUGAGUCAAA
5B4		cc-UUCACGGAGGCUAUGACUA-ga	8613-8631	sense	UUCACGGAGGCUAUGACUAGA
				antisense	UAGUCAUAGCCUCCGUGAAGG
5B5		au-ACGACUUGGAGUUGAUAA-au	8671-8689	sense	ACGACUUGGAGUUGAUAAAU
				antisense	GUUAUCAACUCCAAGUCGUAU
5B6		au-UCCUGGCUAGGCAACAUA-uc	8817-8835	sense	UCCUGGCUAGGCAACAUAUC
				antisense	UGAUGUUGCCUAGCCAGGAAU
5B7		uu-GUGGCAAGUACCUCUCAA-cu	9160-9178	sense	GUGGCAAGUACCUCUCAAACU
				antisense	UUGAAGAGGUACUUGCCACAA
5B8		au-GUGGUGCCUACUCCUACUU-uc	9317-9335	sense	GUGGUGCCUACUCCUACUUUC
				antisense	AAGUAGGAGUAGGCACCACAU
3U1	3'UTR	cu-UUGGUGGCUCCAUCUUAGC-cc	9506-9524	sense	UUGGUGGCUCCAUCUUAGCCC
				antisense	GCUAAGAUGGAGCCACCAAAG
3U2		gu-CACGGCUAGCUGUGAAAGG-uc	9531-9549	sense	CACGGCUAGCUGUGAAAGGUC
				antisense	CCUUUCACAGCUAGCCGUGAC
3U3		ag-CCGCUUGACUGCAGAGAGU-gc	9558-9576	sense	CCGCUUGACUGCAGAGAGUGC
				antisense	ACUCUCUGCAGUCAAGCGGCU

Fig. 3

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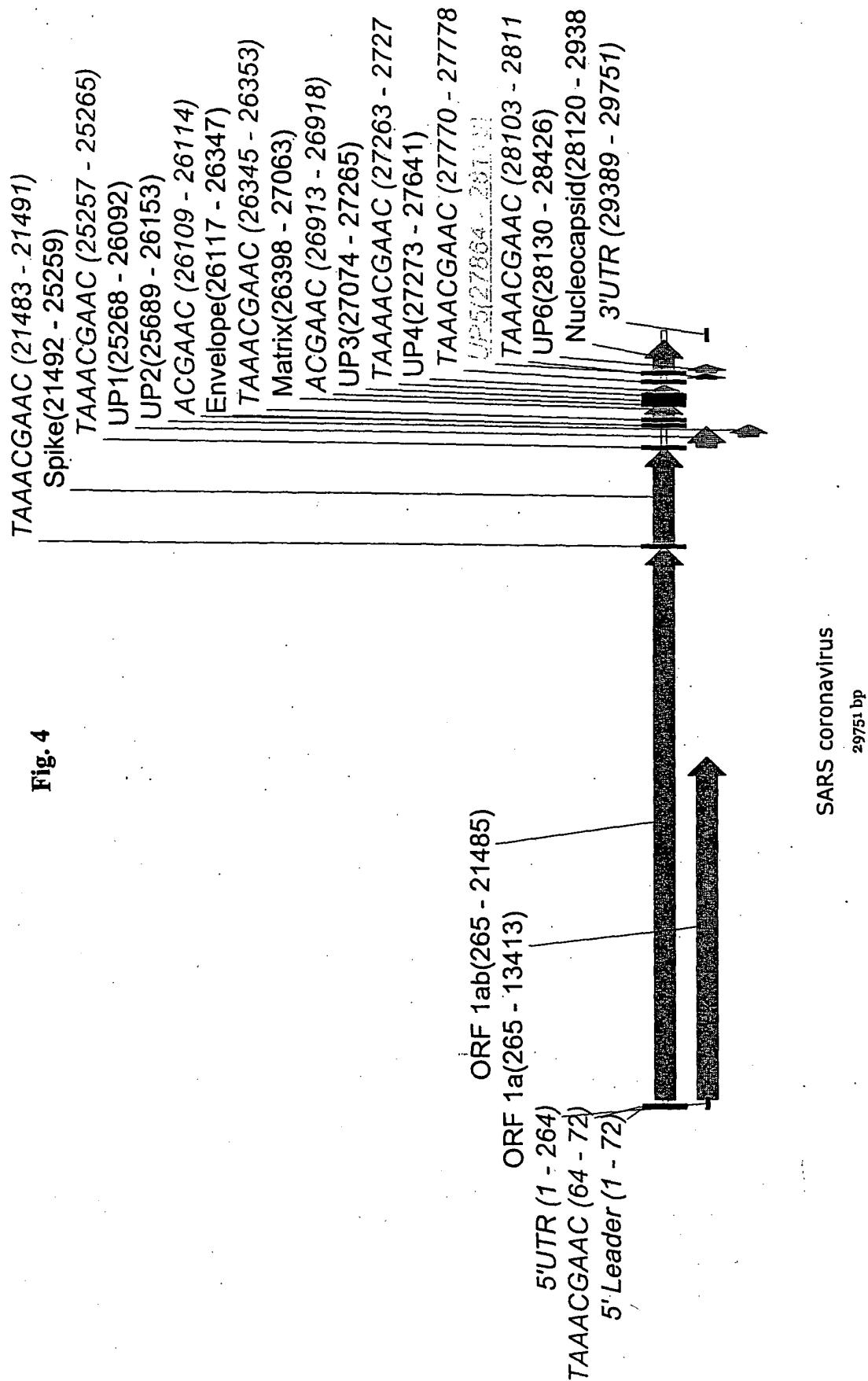
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Title: Modified Small Interfering  
RNA Molecules and Methods of Use  
Inventor(s): Jang Han et al.  
Atty. Dkt. No.: 072121-0189-Reg

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//



**Fig. 5. The Subgenomic HCV Replicon Used to Test  
The Efficacy of siRNA in Human Liver Cells**



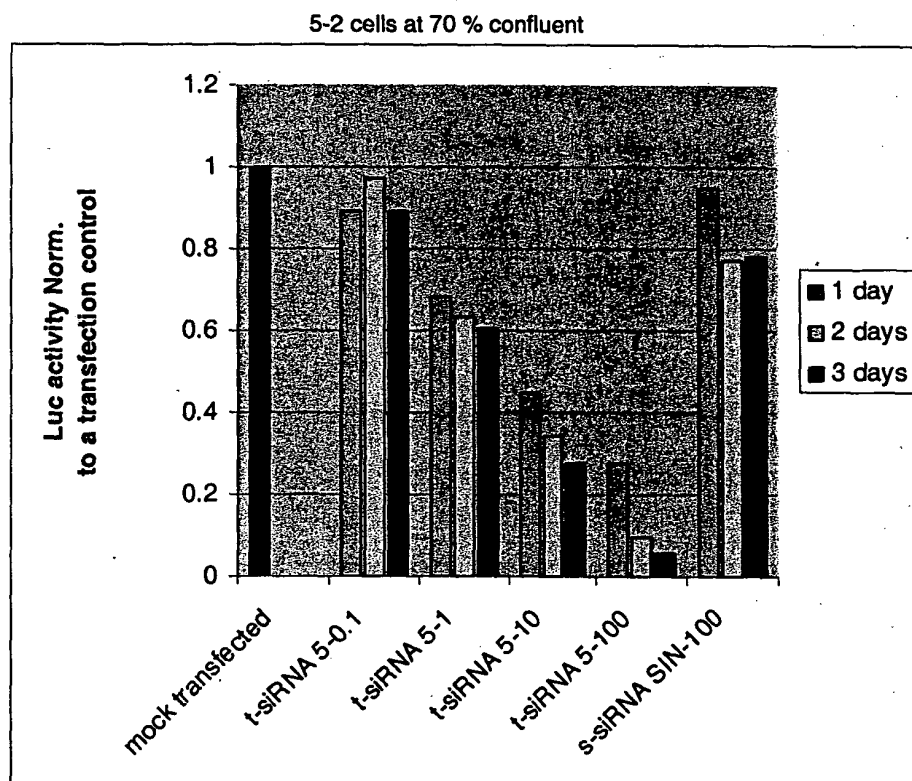
Neo: neomycin phosphotransferase gene

Luc: fruit fly luciferase

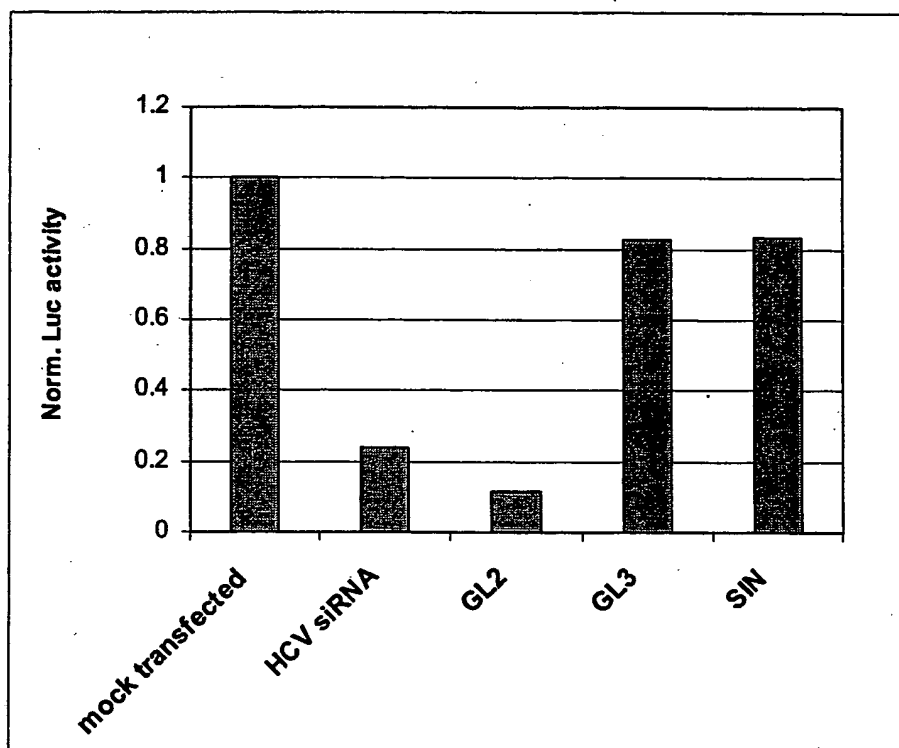
EMCV: internal ribosome entry site taken from EMCV

NS3, NS4A, NS4B, NS5A, and NS5B: HCV nonstructural proteins

**Fig. 6. The Effect of siRNA<sub>s</sub> on HCV Replication  
In Huh 5-2 Cells**

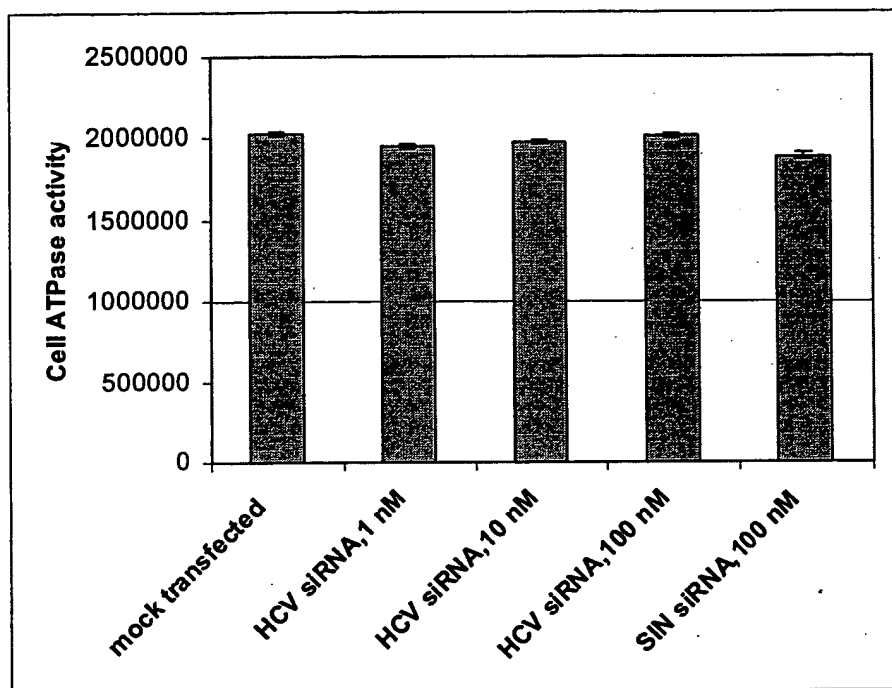


**Fig. 7. Sequence Specificity Required for Mediating RNA  
Interference in Huh7 Cells**

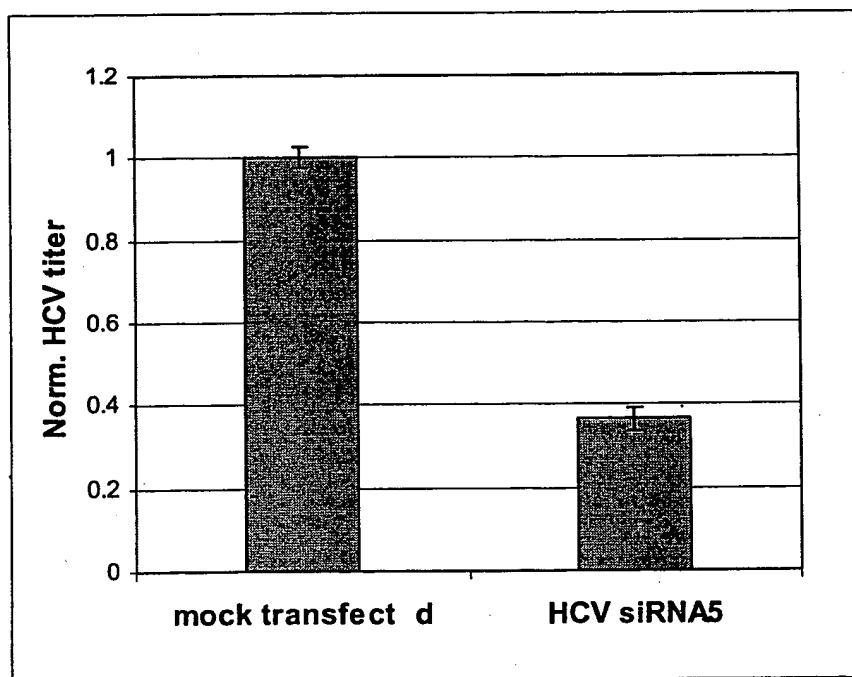




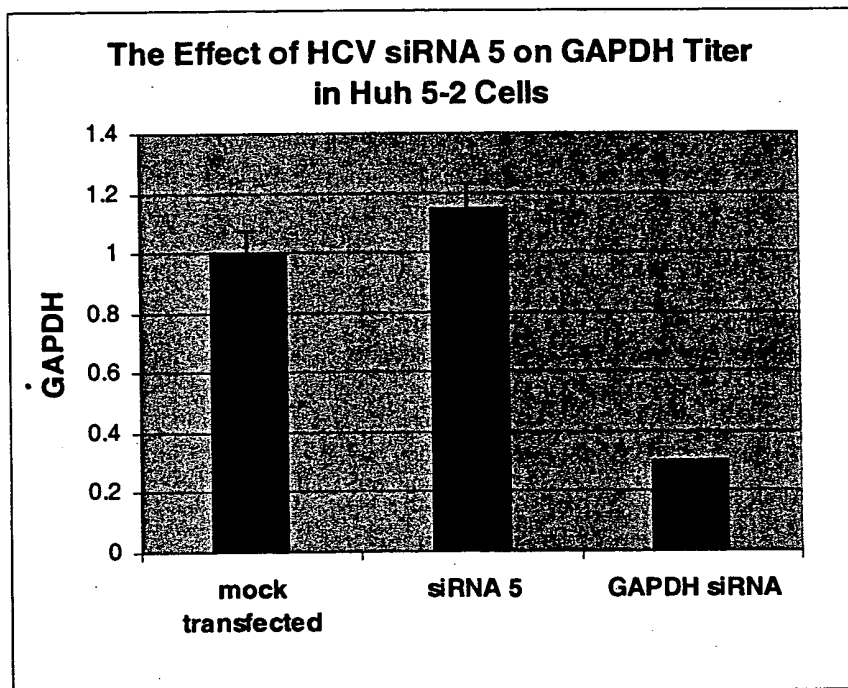
**Fig. 8. The Effect of siRNA5 of Cell Viability Measured by Cellular ATPase Activity**



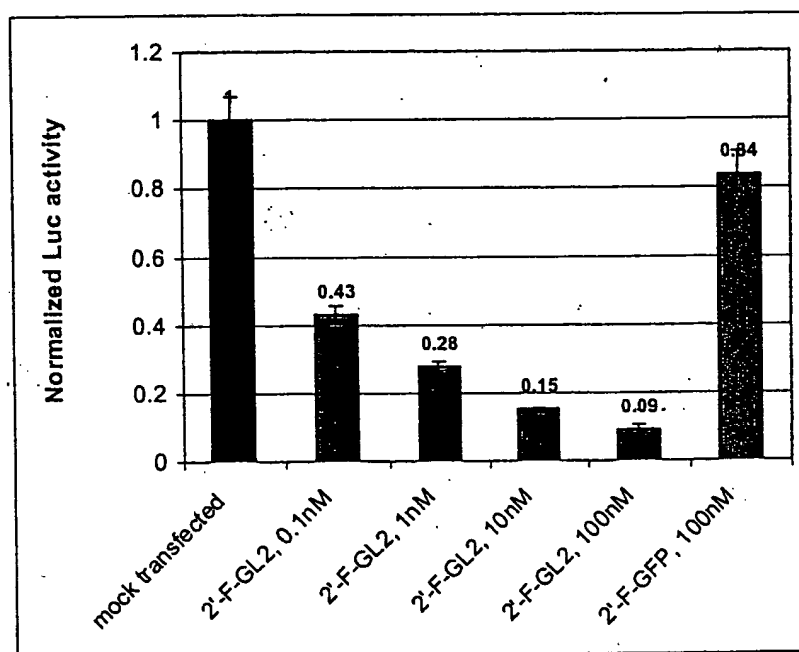
**Fig. 9. The Effect of siRNA<sub>5</sub> on HCV Replication in Huh-7 Cells Measured by HCV RNA Assay**



**Fig. 10**



**Fig. 11**



**Fig. 12**

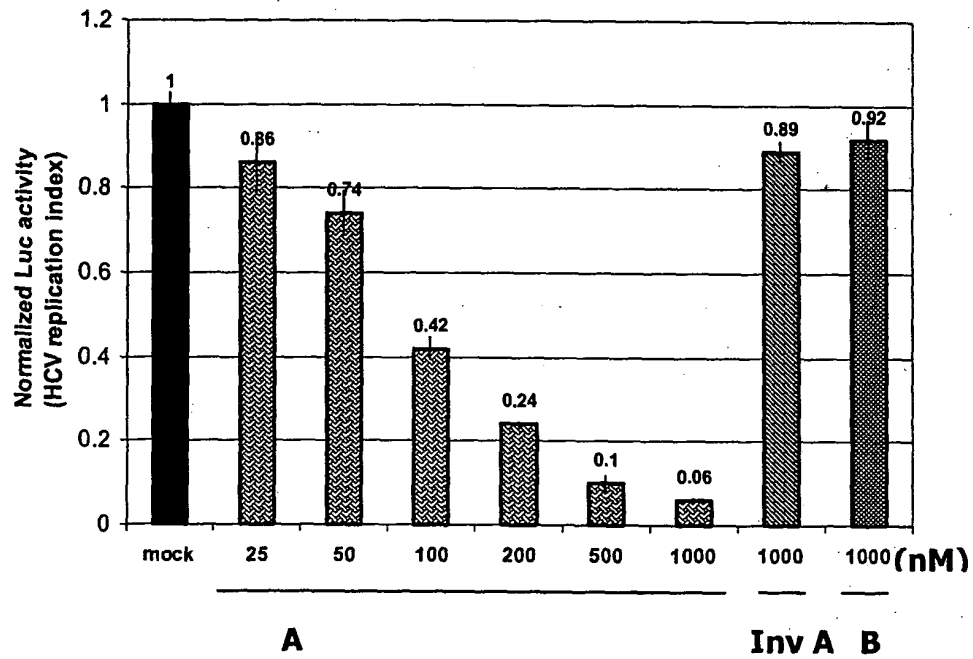
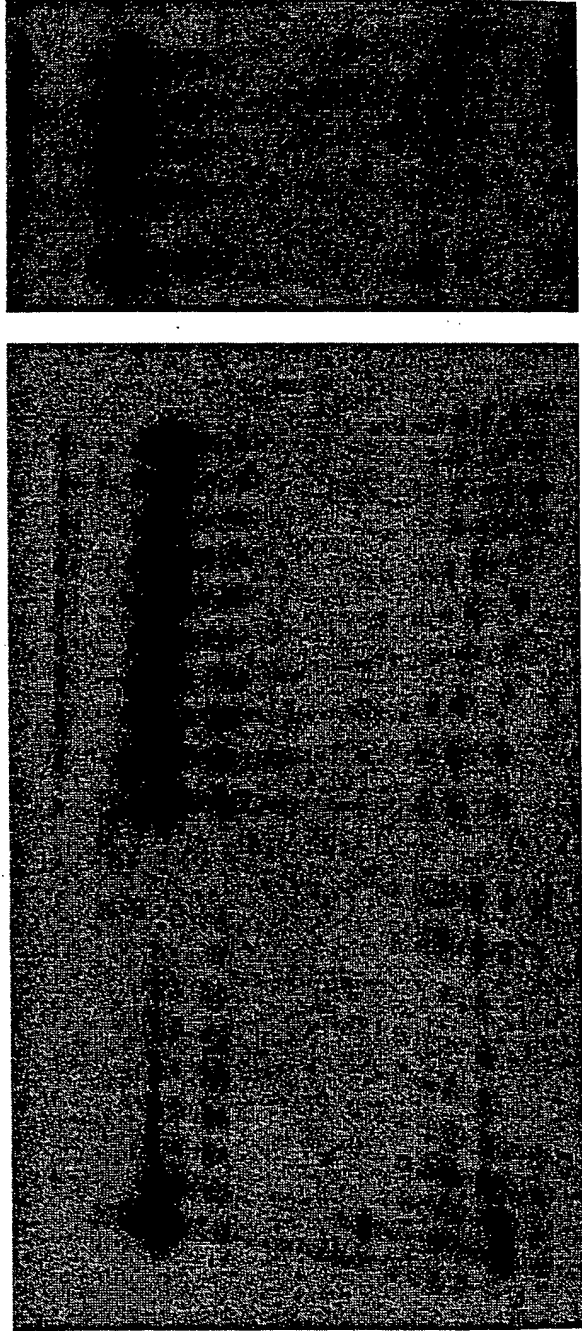


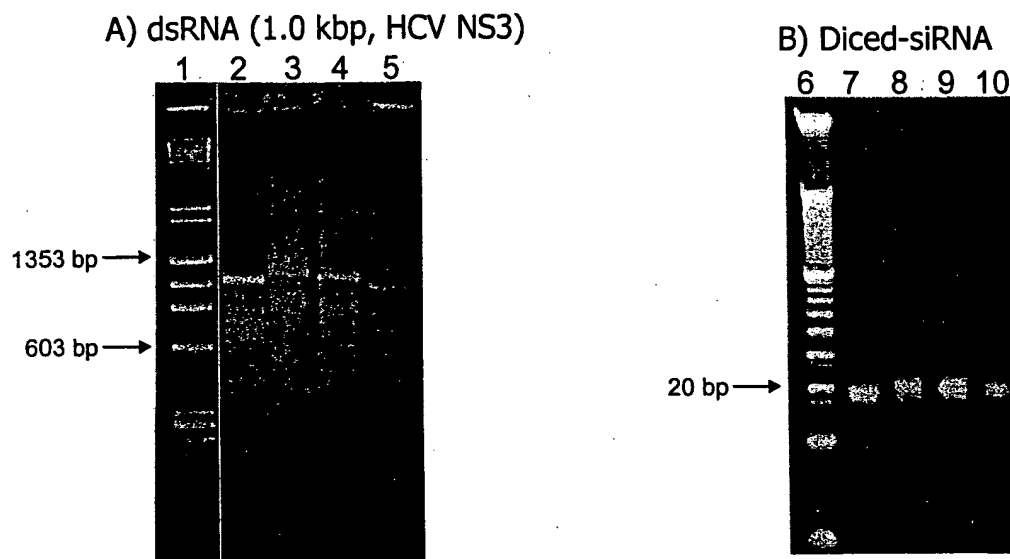
Fig. 13

2'-ribo-siRNA                      2'-F-siRNA

1 2 3 4 5 6 7 8 9 10      11 12 13 14 15 16 17 18 19 20      21 22 23 24 25



**Fig. 14**



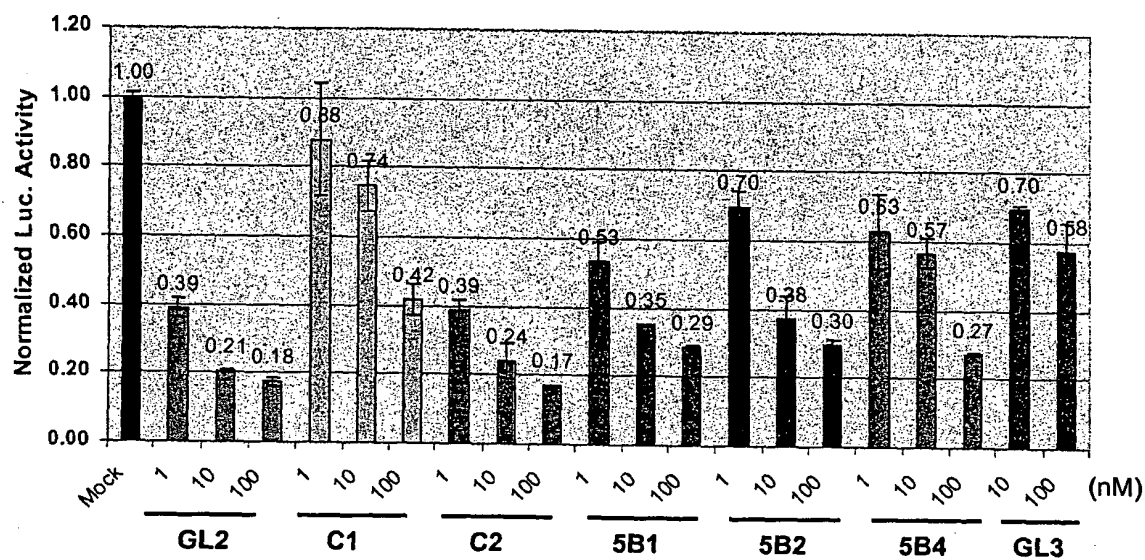


Fig. 15

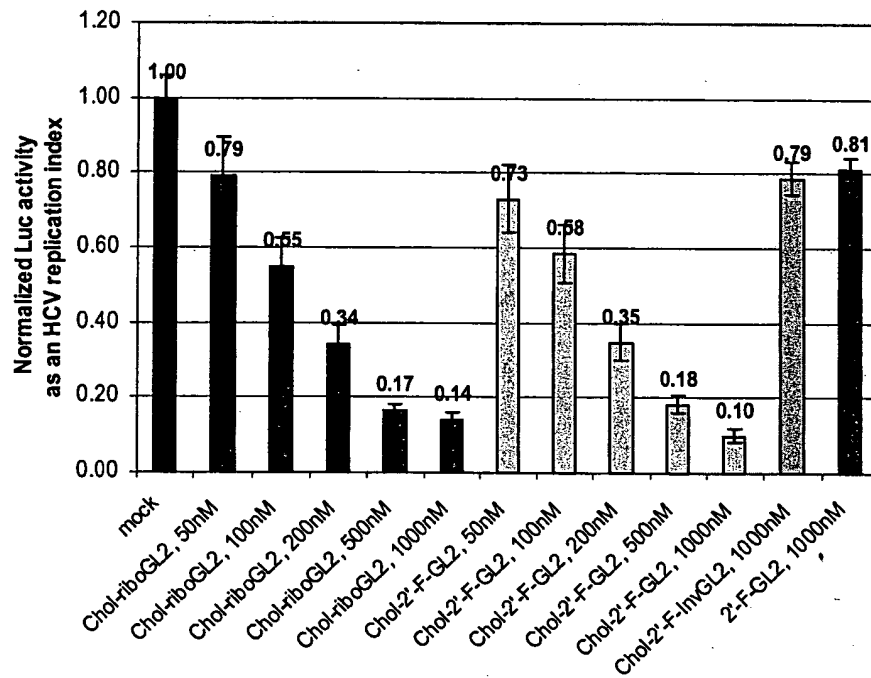


Fig. 16